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MODIFICATION INSTRUCTIONS for the *Kodak X-Omat* MULTILOADER 300, Mod No. 31 *Kodak X-Omat* 270 RA PROCESSOR, Mod No. 20 *Kodak X-Omat* 480 RA PROCESSOR, Mod No. 2

Service Codes: 3058, 3059, and 3228

Type 1 Required

Purpose: To check for or provide correct grounding of the REPLENISHMENT PUMPS.

Important
Use qualified service personnel to install this modification.

Service Effects:	None
Special Requirements:	None
Serial Numbers:	Multiloader 300: 1079 - 1110 (Serial Number is for the Processor) 270 RA Processor: 2448 - 2495 480 RA Processor: 3069 - 3165
Installation Time:	approximately 1 hour
Special Tools:	paint removal tool, such as a grinder, awl, or sandpaper black TOUCH-UP PAINT, such as TL-2216 4 CLAMPS TL-2170 MAGNETIC POWER WARNING SIGN TL-1926
Parts Status:	None
Parts Requirements:	None

HEALTH IMAGING DIVISION

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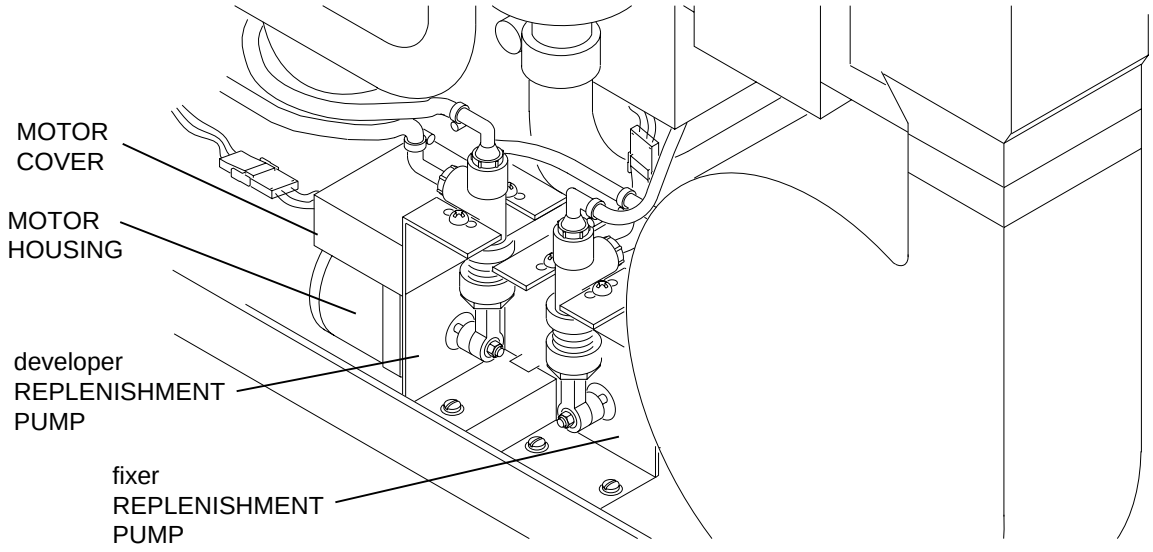
This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

For the 270 RA PROCESSOR and the MULTILOADER 300:

Note

Instuctions for the 480 RA PROCESSOR start on Page 8.

Figure 1 **Observing the Paint on Both REPLENISHMENT PUMPS**



Warning

Dangerous voltage.

[1] De-energize the PROCESSOR or MULTILOADER.

(a) Move the MAIN CIRCUIT BREAKER CB1 on the 270 RA PROCESSOR or CB2 on the MULTILOADER to the “OFF” position.

(b) Move the wall CIRCUIT BREAKER to the “OFF” position.

(c) Lock the wall CIRCUIT BREAKER and attach a MAGNETIC POWER WARNING SIGN TL-1926 to warn others not to energize the equipment while you are performing service.

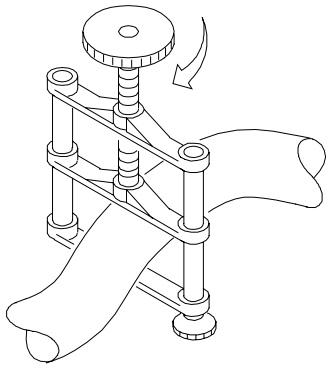
[2] Lift the TOP COVER of the 270 PROCESSOR or extend the PROCESSOR from the MULTILOADER.

[3] Remove the NON-DRIVE SIDE PANEL from the 270 PROCESSOR, or the NON-DRIVE SIDE SAFETY COVER from the PROCESSOR in the MULTILOADER.

[4] Observe both REPLENISHMENT PUMPS.

- If both the MOTOR COVER and the MOTOR HOUSING are unpainted metal, advance to Step 11 or 12 on Page 6.
- If either the MOTOR COVER or the MOTOR HOUSING are painted black, continue with Step 5 on Page 4.

Figure 2 **CLAMP TL-2170**



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Important

Do this procedure for each REPLENISHMENT PUMP, one at a time.

[5] Remove the REPLENISHMENT PUMP.

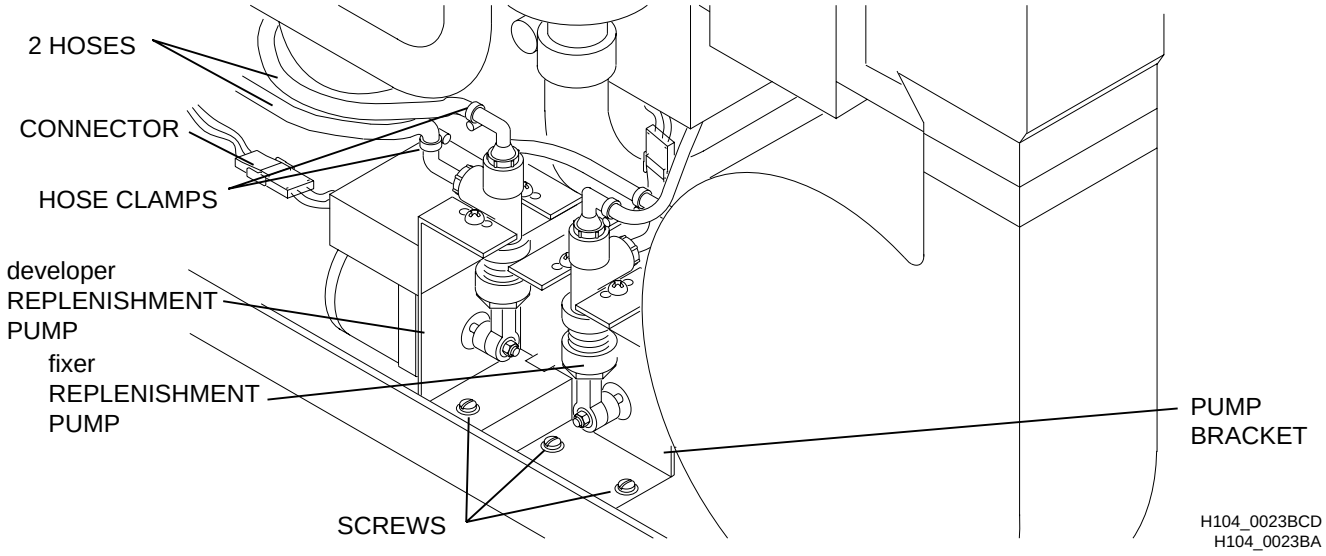
(a) Install and tighten 2 CLAMPS TL-2170 on the 2 HOSES for one of the REPLENISHMENT PUMPS.

(b) Loosen the 2 HOSE CLAMPS and remove the 2 HOSES from the REPLENISHMENT PUMP.

(c) Remove the 1 or 2 SCREWS from the PUMP BASE PLATE.

(d) Disconnect the CONNECTOR from the PUMP, and remove the PUMP from the PROCESSOR.

Figure 3 **Removing the REPLENISHMENT PUMP**



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[6] If the MOTOR COVER is unpainted metal, advance to Step 7 on Page 5. If the MOTOR COVER is painted black, do the following steps:

(a) See Figure 4 on Page 5 and remove:

- 2 top SCREWS and the MOTOR COVER from the PUMP BRACKET
- GROUND SCREW, NUT, and STAR WASHER that hold the GROUND WIRE LUG to the inside of the MOTOR COVER
- on the inside of the MOTOR COVER, the paint that is around the hole for the GROUND SCREW

(b) Install the GROUND SCREW, the GROUND WIRE LUG, the STAR WASHER, and the NUT. See Figure 4 for the correct sequence of parts.

(c) Apply TOUCH-UP PAINT, such as TL-2216, to the metal where you removed the paint and on the installed GROUND SCREW, the GROUND WIRE LUG, the STAR WASHER, and the NUT.

(d) Remove all the paint from the 2 TABS on the MOTOR COVER, that will have contact with the PUMP BRACKET. Do not apply paint to the TABS.

(e) Install the MOTOR COVER.

[7] If the MOTOR HOUSING is unpainted metal, advance to Step 8. If the MOTOR HOUSING is painted black, do the following steps:

(a) Remove one of the bottom MOTOR MOUNTING SCREWS that hold the MOTOR HOUSING to the GEARBOX.

(b) Remove the paint from the MOTOR HOUSING under the MOTOR MOUNTING SCREW.

(c) Install the MOTOR MOUNTING SCREW. See Figure 4.

(d) Apply TOUCH-UP PAINT, such as TL-2216, to the metal where you removed the paint and to the installed MOTOR MOUNTING SCREW.

[8] Install the HOSE CLAMPS, and remove the CLAMPS TL-2170.

[9] Install the REPLENISHMENT PUMP in the PROCESSOR, and connect the CONNECTOR.

[10] Do the procedure with the other REPLENISHMENT PUMP. Then do Step 11 or 12 on Page 6.

Figure 4 **Improving the Ground for the REPLENISHMENT PUMPS**

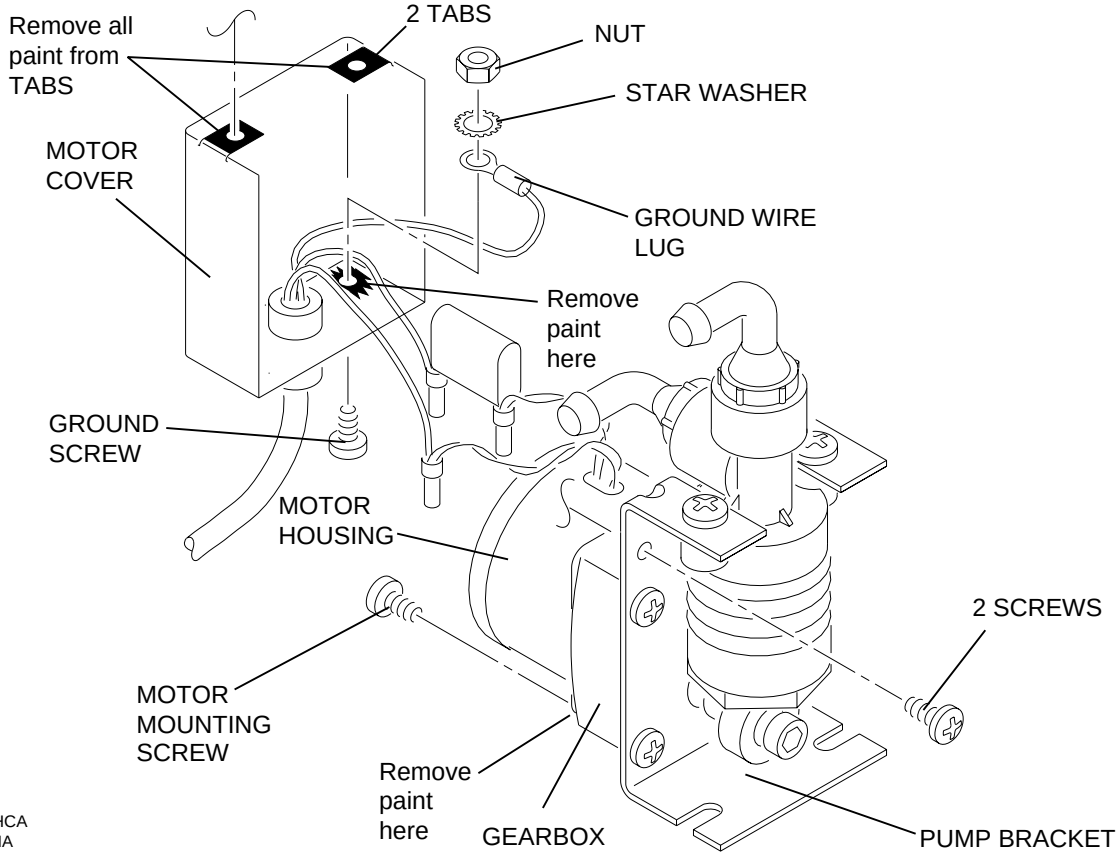

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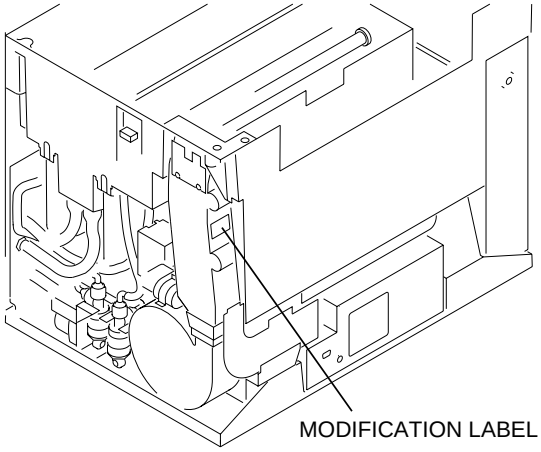
Figure 5 **270 RA PROCESSORS**



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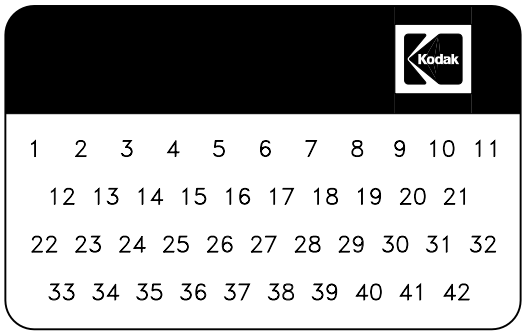
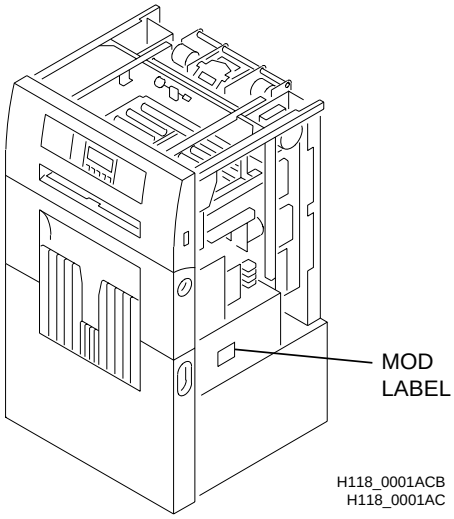
[11] Circle the “20” on the MODIFICATION LABEL for the 270 RA PROCESSOR.



Circle the “20” for the 270 RA PROCESSOR.

Figure 6 **MULTILOADERS 300 with (Processor) Serial No. 1369 and Below**



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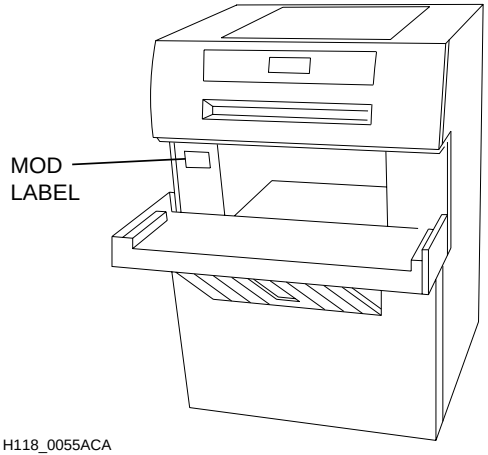
H118_0001AC

[12] Circle the “31” on the MODIFICATION LABEL.

- On MULTILOADERS Serial No. 1369 and below, see Figure 6.
- On MULTILOADERS Serial No. 1370 and above, the MOD LABEL is inside the MAGAZINE DOOR. See Figure 7.

Figure 7 **MULTILOADERS 300 with (Processor) Serial No. 1370 and Above**



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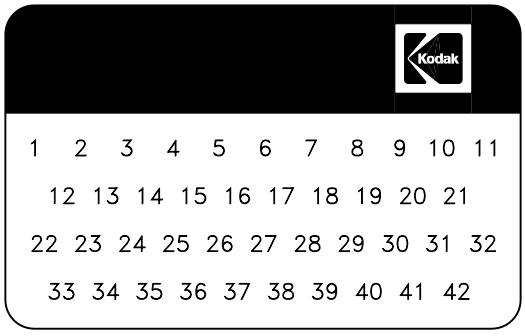
H118_0055AC



Circle the “31” for the MULTILOADER 300.

[13] Install the NON-DRIVE SIDE PANEL or SAFETY COVER.

[14] Close the TOP COVER or move the PROCESSOR into the MULTILOADER.

[15] Energize the PROCESSOR.

- **(a)** Remove the MAGNETIC POWER WARNING SIGN from the wall CIRCUIT BREAKER.
- **(b)** Move the wall CIRCUIT BREAKER to the "ON" position.
- **(c)** Move the MAIN CIRCUIT BREAKER CB1 on the 270 RA PROCESSOR or CB2 on the MULTILOADER to the "ON" position.

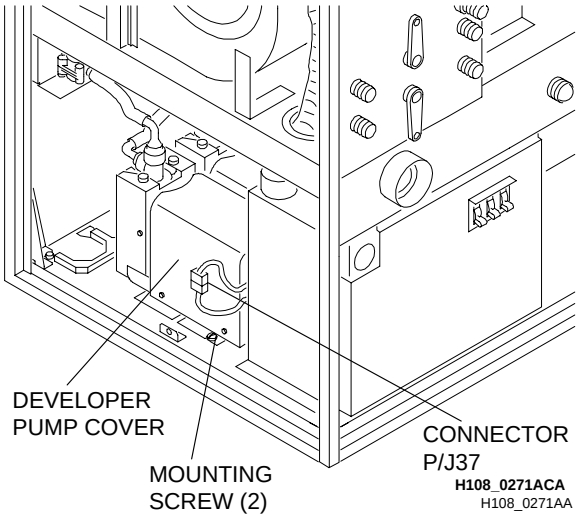
[16] Check for correct operation and leakage.

For the 480 RA PROCESSOR:

Note

Instuctions for the 270 RA PROCESSOR and the MULTILOADER 300 start on Page 3.

Figure 8 **Removing the REPLENISHMENT PUMP**



Warning

Dangerous voltage.

[1] De-energize the PROCESSOR or MULTILOADER.

- **(a)** Move the MAIN CIRCUIT BREAKER CB1 on thePROCESSOR to the "OFF" position.
- **(b)** Move the wall CIRCUIT BREAKER to the "OFF" position.
- **(c)** Lock the wall CIRCUIT BREAKER and attach a MAGNETIC POWER WARNING SIGN TL-1926 to warn others not to energize the equipment while you are performing service.

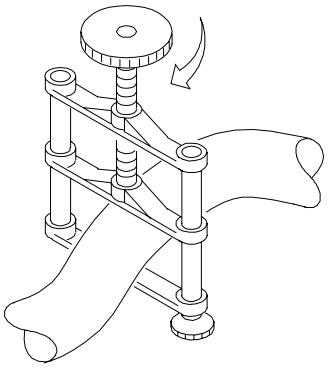
[2] Remove:

- DRIVE SIDE ACCESS PANEL
- DRYER PANEL
- RECEIVING END ACCESS PANEL

[3] Observe both REPLENISHMENT PUMPS.

- If both PUMPS are unpainted metal, advance to Step 13 on Page 9.
- If either PUMP is painted black, continue with Step 4.

Figure 9 **CLAMP TL-2170**



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[4] Remove the developer REPLENISHMENT PUMP. See Figures 8 and 9.

(a) Install and tighten 2 CLAMPS TL-2170 on the 2 HOSES for the REPLENISHMENT PUMP.

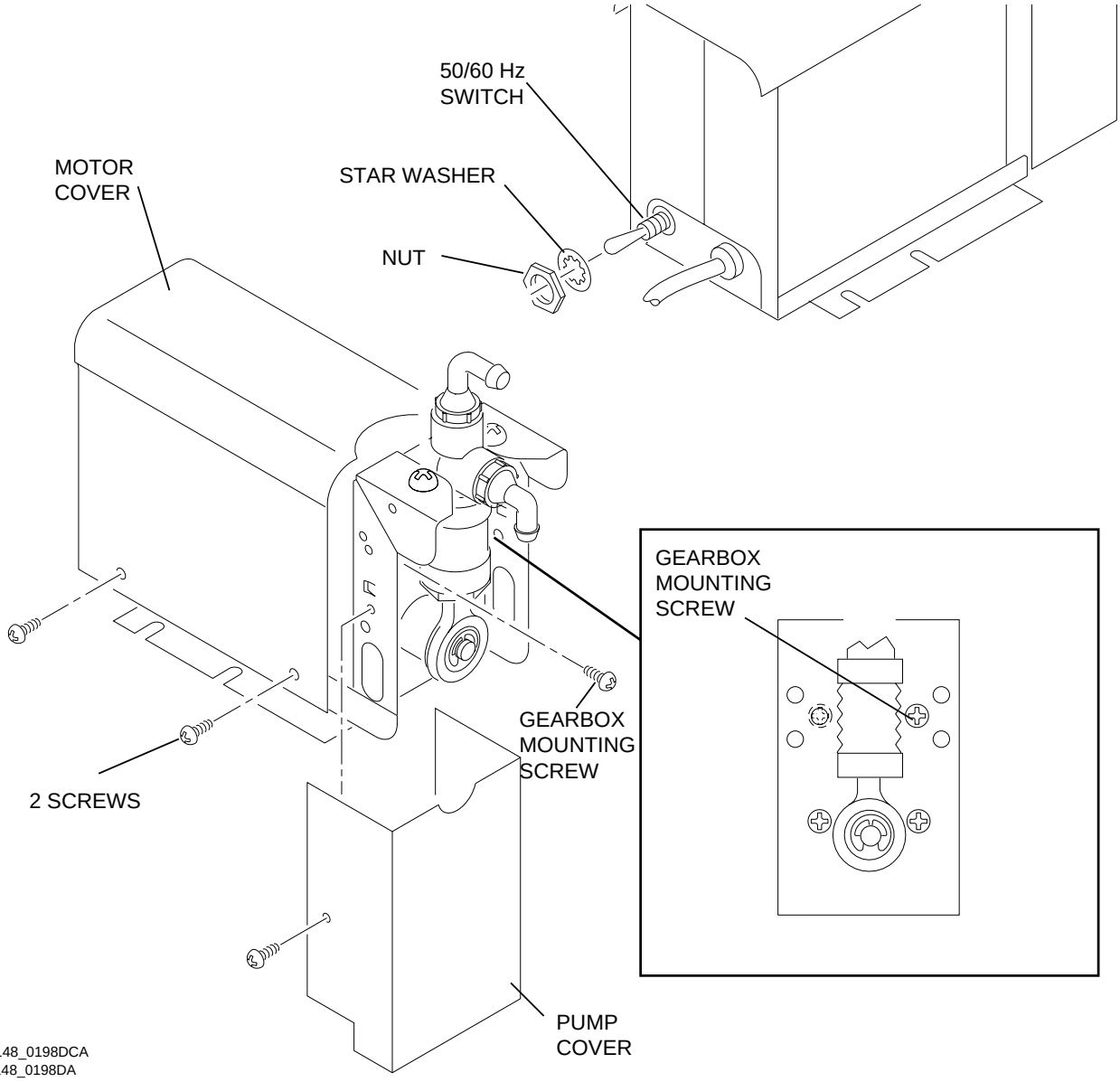
(b) Loosen the 2 HOSE CLAMPS and remove the 2 HOSES from the REPLENISHMENT PUMP.

(c) Remove the 2 MOUNTING SCREWS.

(d) Disconnect the CONNECTOR from the PUMP, and remove the PUMP from the PROCESSOR.

[5] Do Step 4 again to remove the fixer REPLENISHMENT PUMP.

Figure 10 **Improving the Ground for the REPLENISHMENT PUMPS**



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H148_0198DA

[6] Remove from both PUMPS:

- PUMP COVERS and the MOTOR COVERS
- NUT and STAR WASHER from the 50/60 Hz SWITCH
- one of the GEARBOX MOUNTING SCREWS

[7] Remove the paint from:

- around the 2 holes for SCREWS on the outside of each of the MOTOR COVERS
- around the hole for the GEARBOX MOUNTING SCREW
- around the outside of the hole for the 50/60 Hz SWITCH

[8] Install the 50/60 Hz SWITCH, and check that it is in the correct position for 50 or 60 Hz.

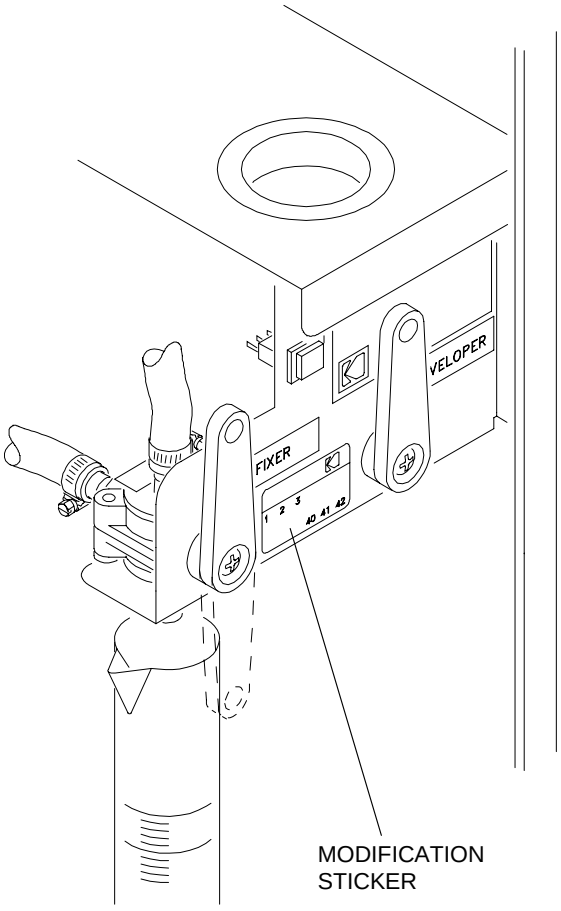
[9] Install the GEARBOX MOUNTING SCREW.

[10] Install the PUMP COVERS and the MOTOR COVERS.

[11] Apply the TOUCH-UP PAINT, such as TL-2216, to all the metal where you removed the paint and on the installed SCREWS.

[12] Install the REPLENISHMENT PUMPS in the PROCESSOR.

Figure 11 **480 RA PROCESSOR**



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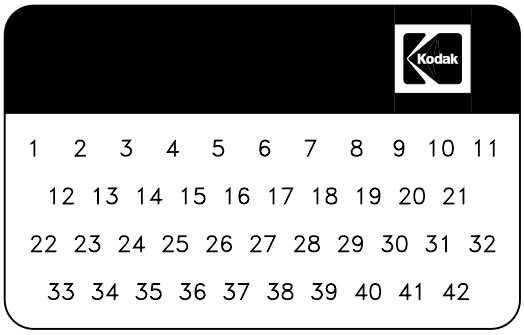
[13] Circle the “2” on the MODIFICATION STICKER.



Circle the “2” for the 480 RA PROCESOR.

[14] Install the PANELS.

[15] Energize the PROCESSOR.

(a) Remove the MAGNETIC POWER WARNING SIGN from the wall CIRCUIT BREAKER.

(b) Move the wall CIRCUIT BREAKER to the “ON” position.

(c) Move the MAIN CIRCUIT BREAKER CB1 on the PROCESSOR to the “ON” position.

[16] Check for correct operation and leakage.

Publication History

Print Date	Pub. No.	ECO No.	Affected Pages	File Name	Notes
MAR96	8B7480	2592-361	All	ma3058_31_01mar96.doc	New Modification Instructions

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